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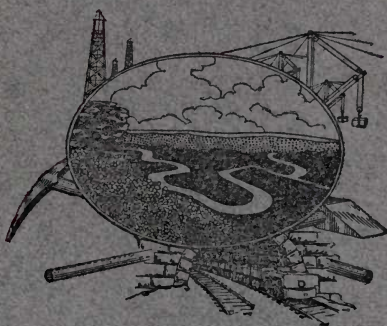
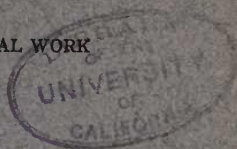
Geologist

THE  
ESTABLISHMENT, PURPOSE, SCOPE, AND  
METHODS

OF THE STATE GEOLOGICAL SURVEY

BY GEO. H. ASHLEY

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IN TENNESSEE

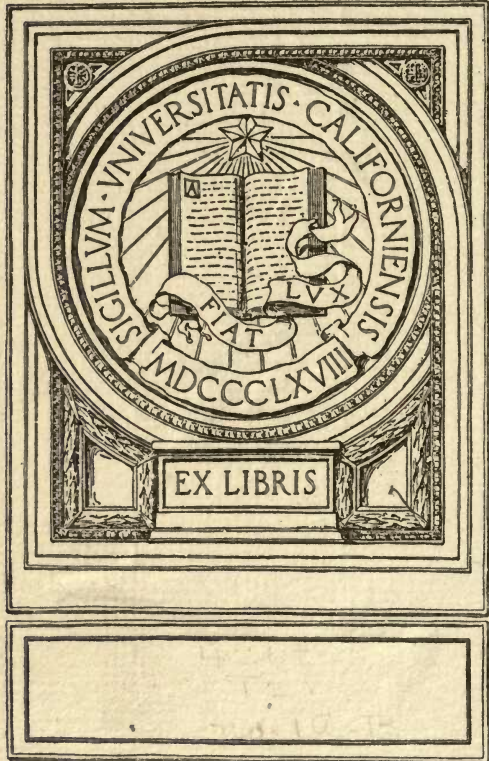


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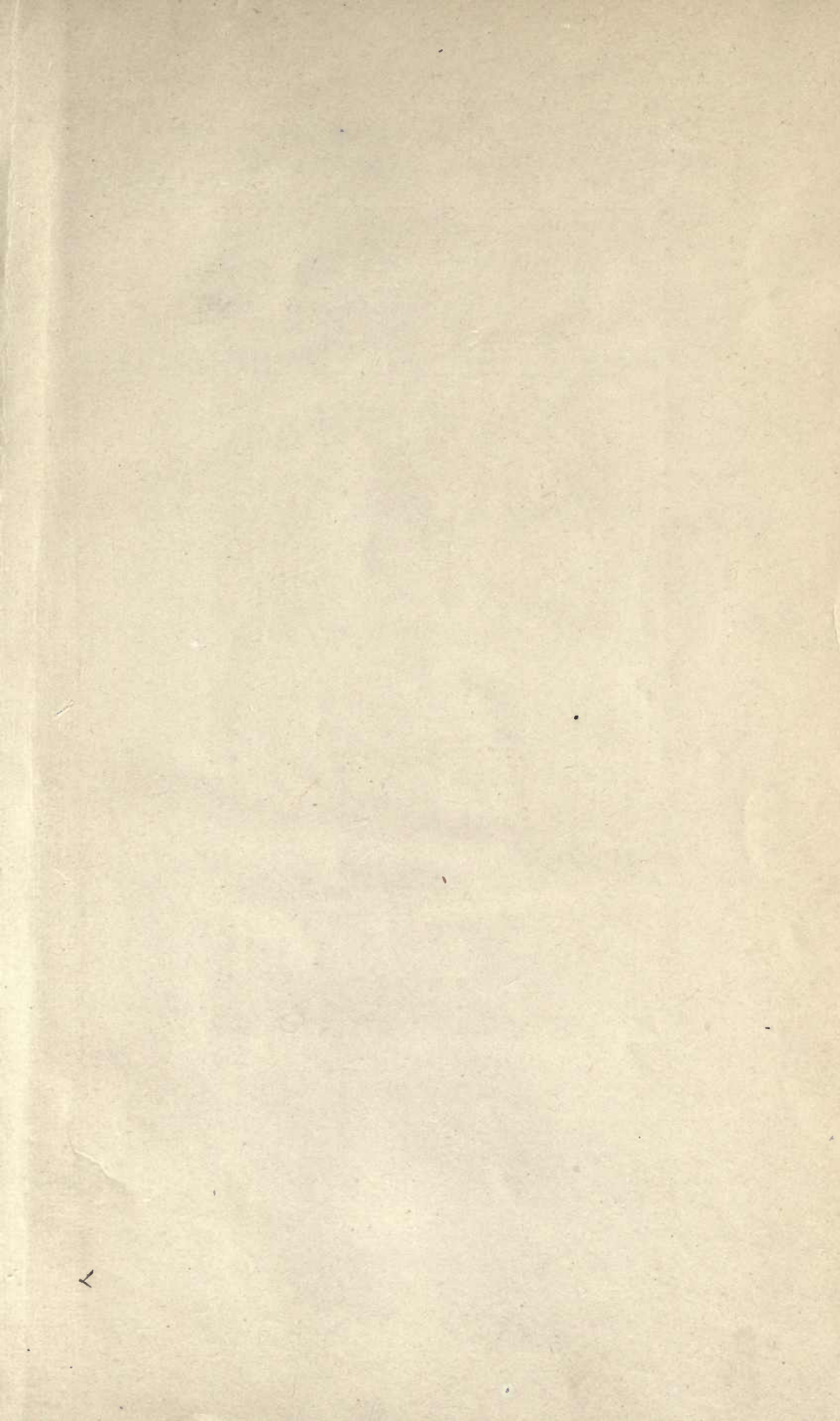
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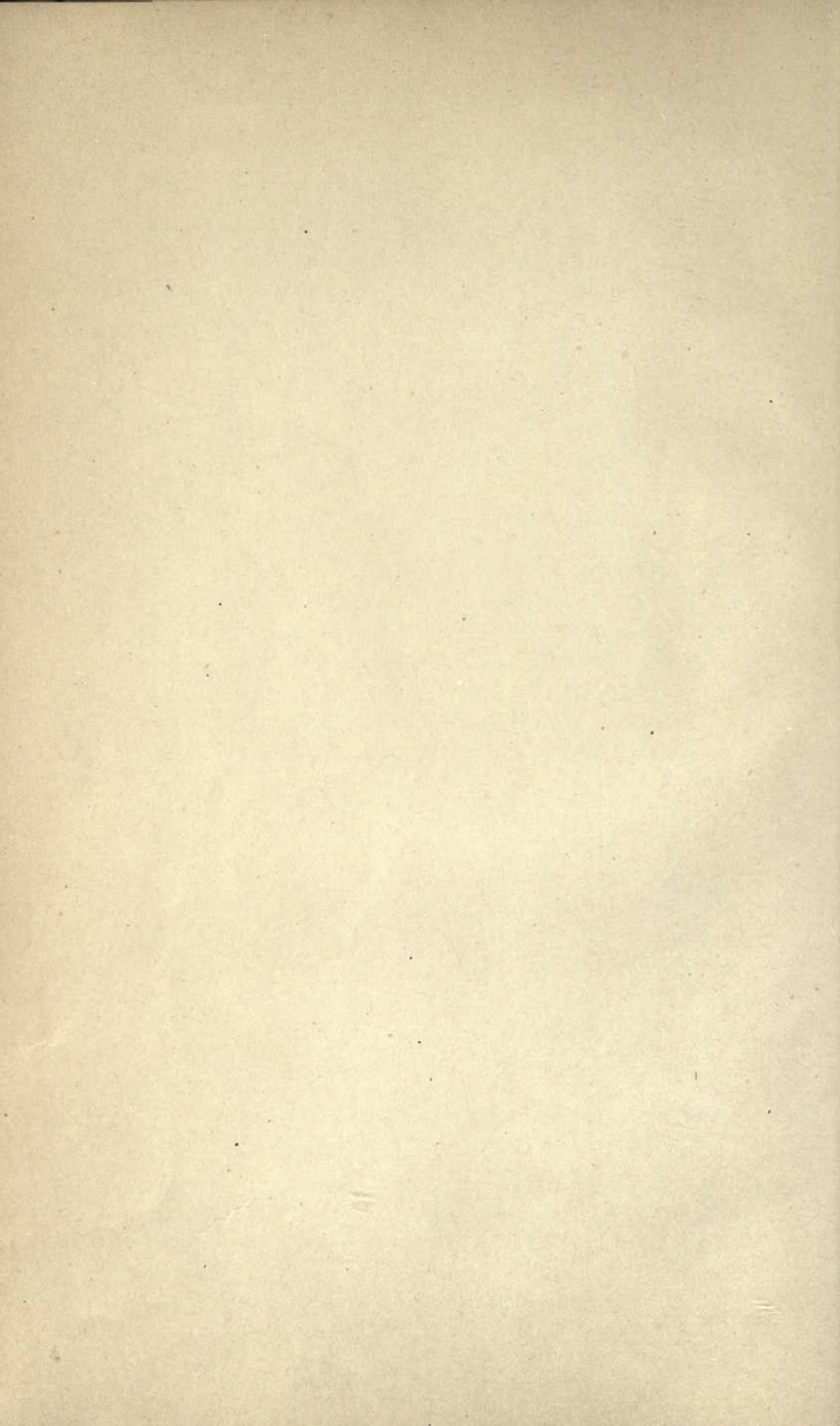
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STATE OF TENNESSEE—STATE GEOLOGICAL SURVEY

GEORGE H. ASHLEY, State Geologist

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BIBLIOGRAPHY  
OF  
Tennessee Geology, Soils, Drain-  
age, Forestry, Etc.

WITH SUBJECT INDEX

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BY  
ELIZABETH COCKRILL

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EXTRACT (B) FROM BULLETIN No. 1, "GEOLOGICAL WORK  
IN TENNESSEE."



NASHVILLE  
FOLK-KEELIN PRINTING COMPANY  
1911





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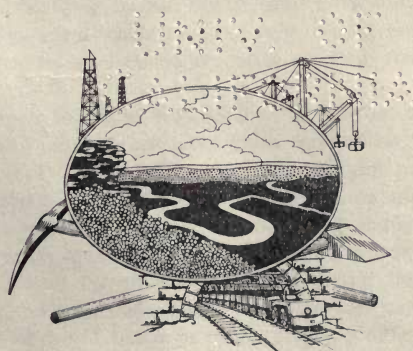
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TO BE  
REPRODUCED

## INTRODUCTION.

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The following bibliography was prepared by Miss Cockrill, first as a card catalogue and cross reference index for the use of the Survey, and then for publication for general use.

As is readily seen, a large amount of geologic work has already been done in Tennessee. While many of these reports and papers are out of print or can be obtained only with difficulty, on the other hand, many of them can be obtained for the asking or at a relatively small cost.

It is the purpose of the present State Survey to prepare a series of bulletins summarizing all that is now known of the different mineral resources, and the different counties, and in many cases, these summaries will cover all of the facts presented in the earlier reports, and to that extent will, for practical purposes, entirely superseded those reports; but no attempt to duplicate the detailed earlier reports will be made until such time as the Survey's own detailed work shall have covered that area, resource or problem.

For example, the Columbia folio by the U. S. Geological Survey is a beautiful piece of work and mapping, describing the phosphate rocks occurring in that region, the rocks in which the phosphates occur, their probable origin, their general distribution, their general chemical character, but no details are given. In the progress of its detailed study of the phosphate rocks, the State Survey will ultimately hope to publish, not only detailed maps of the phosphate deposits, but detailed descriptions of all the deposits, giving, as far as possible, detailed sections, description of extent, analyses, etc. But meanwhile many people may want to refer to the Columbia folio if they know of its existence. So, too, the Columbia folio describes some interesting embayment deposits. Ultimately the State Survey hopes to trace those deposits to their natural limits, but it may be some years before that can be done, and in the meanwhile many people would be interested in the facts brought out even in as limited an area as that covered by the Columbia folio.

Therefore, it has been felt that it would be a distinct service to publish a list of the reports and papers that have been written on the geology, soils, drainage and forestry of Tennessee. The bibliography makes no pretense to being complete, especially in the cross indexing (as many of the earlier papers, especially, are not contained in the State Geologist's private library, which, for the time being, must serve the needs of the new Survey).

But it was felt it would be of more value to bring the list out without delay, rather than to wait the several years that are usually necessary to search out the few additional titles to make it complete.

In preparing the bibliography, Miss Cockrill has made use of the various bibliographies on geology issued by the U. S. Geological Survey, and has supplemented that by lists kindly furnished by the several bureaus of the Agricultural Department, Coast and Geodetic Survey, etc., and by such other titles as could be learned of from the people in the State. In this work she has received a large amount of assistance from Professor Glenn,

who has gone through all of the geological library of Vanderbilt University, including Professor Safford's books, so that including a large number of titles from the reports of the Chief of Engineers, State Board of Health, and similar publications, he added nearly a thousand titles to those previously obtained. Mr. Nelson has aided in preparing the index and in the proof reading.

The government reports are usually to be obtained by request from the heads of the several bureaus, thus letters for such reports should be addressed to: The Director, U. S. Geological Survey, Washington, D. C.; The Superintendent of the Coast and Geodetic Survey, Washington, D. C.; The Director, Office of Public Roads, Agricultural Department, Washington, D. C.; Chief of Bureau of Soils, Department of Agriculture, Washington, D. C.; Chief Forester, Forest Service, Washington, D. C., etc. A few of the publications are sale publications, such as the topographic atlas sheets and the folios of the U. S. Geological Survey. In these cases, the charges made are simply to cover the cost of printing and binding. The topographic atlas sheets can be obtained at a cost of five cents each, and the folios for twenty-five cents each (stamps not accepted). In some cases the supply of these publications for distribution for the several bureaus will be found to have been exhausted. Application should then be made to the Superintendent of Documents, Washington, D. C., from whom they may be purchased at the cost of publication. If the supply of that official is exhausted, they can only be obtained from second hand book dealers, or from people to whom they were previously sent. Many of these publications can be consulted at the libraries, as most of the libraries receive full sets of the government publications.

Nashville.

GEORGE H. ASHLEY.



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     A plea for establishing a state geological survey.
13. Geographical (sic) survey of Tennessee.  
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     Geol. Soc. Pa., Trans., vol. 1, pp. 232-235, 1835.
15. Kraurite and Cacoxene in Tennessee.  
     Amer. Jour. Sci., 2nd ser., vol. 5, p. 421, 1848.
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20. Investigations respecting the extent of the coal formation of the State of Tennessee.  
     Amer. Jour. Sci., vol. 20, pp. 391-392, 1836.
21. Description and analysis of a meteoric mass found in Tennessee, composed of metallic iron, graphite, hydroxide of iron and pyrites.  
     Amer. Jour. Sci., vol. 38, pp. 250-254, 1840; Bibl. Univ., vol. 31, pp. 189-191, 1841; Sturgeon, Am. Electr., vol. 5, pp. 313-316, 1840.
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     Proc. Amer. Assn. Adv. Sci., vol. 2, pp. 59-62, 1850.  
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**Troost (Gerard)—Continued.****23. Description d'un nouveau genre de fossiles.**

Mem. de la Soc. Geol. de France Tome 3 Mem. No. 4, 1834, pp. 87-96, pls. 9-11.

*Conotunularia* n. gen.

*C. Cuvierii* pl. 9 f. 1. *C. Brongniartii* pl. 9 f. 2. *C. Goldfussii* pl. 9 f. 3.

*Orthoceratites* environs de Nashville.

The author describes a new species of *Asaphus* from Perry County, as *A. megalophthalmus*, p. 94, pl. 11, fig. 5, and an undescribed *Trilobite* pl. 11, fig. 6-7.

The first is a *Phacops* approaching *P. Hudsoni* Hall, the second a species of the genus *Dalmanites*.

The author does not give a name but figures pl. xi, fig. 4 and 8 an excellent figure of *Brachiospongia digitata*.

The author gives a Geol. Section from Memphis to French Broad River, pl. xi, f. 11 and 12.

**24. Crinoids of Tennessee.**

(Unpublished, see Wood, Elriva. A critical summary of 1909.)

**Tuomey (M.)**

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*Am. Jour. Sci.*, 2d ser., vol. 19, pp. 181-182, 1855.

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*U. S. Geol. Surv.*, Bull. No. 243, pp. 301-307, 1905.

Describes the occurrence, geologic relations, and character of limestone in Tennessee suitable for manufacture of Portland cement.

**2. A correlation of the Lower Silurian horizons of Tennessee and of the Ohio and Mississippi valleys with those of New York and Canada.**

*Amer. Geol.*, vol. 1, pp. 100-110, 179-190, 305-315, 1888; vol. 2, pp. 39-44, 1888.

**Ulrich (E. O.)**

See **Hayes (C. W.)** and **Ulrich (E. O.)**

See **Winchell (Newton H.)** and **Ulrich (E. O.)**

**U. S. Coast Survey.**

Geographical positions determined approximately in West Virginia, Kentucky, Tennessee, Alabama, Mississippi and Missouri.

*U. S. Coast Surv.*, Rept., 1865, App. 10, p. 137.

**Usher. (F. C.)**

On the elevation of the banks of the Mississippi.

*Amer. Sci.*, vol. 31, pp. 294-296, 1837.

**Vanderford (Chas. F.)**

The soils of Tennessee.

*Bull. Univ. of Tenn. Agr. Exper. Sta.*, vol. 10, No. 3, p. 139, 3 maps, Knoxville, 1897.

**Van Hise (Charles Richard) and Leith (Charles Kenneth).**

Pre-Cambrian geology of North Carolina.

*U. S. Geol. Surv.*, Bull. 360, 939 pp., maps, 1909.

For Tennessee see pp. 685-687.



**Van Horn (F. B.)**

The phosphate deposits of the United States.

U. S. Geol. Surv., Bull. No. 394. Papers on the Conservation of mineral resources, pp. 161-162.

**Vodges (A. W.)**

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Bulletin Nos. 1-A, 2-A, 2-E, 2-G and 3, issued.

Bulletin No. 1.—Geological work in Tennessee (Parts A and B issued).

- A. The establishment, purpose, object and methods of the State Geological Survey; by Geo. H. Ashley; 33 pages, issued July, 1910; postage, 2 cents.
- B. Bibliography of Tennessee and related subjects; by Elizabeth Cockrill.
- C. History of Geological work in Tennessee; by L. C. Glenn (in preparation).

Bulletin No. 2.—Preliminary papers on the Mineral Resources of Tennessee; by Geo. H. Ashley and others. (Parts A, E and G issued.)

- A. Outline introduction to the Mineral Resources of Tennessee; by Geo. H. Ashley; issued September 10, 1910; postage, 2 cents.
- B. The coal fields of Tennessee; by Geo. H. Ashley (in preparation).
- C. The iron ores of Tennessee; by R. P. Jarvis (in preparation).
- D. The marble of East Tennessee; by C. H. Gordon (in preparation).
- E. Oil and gas development in Tennessee; by M. J. Munn (issued). postage, 2 cents.
- F. The phosphate deposits of Tennessee; by Lucius P. Brown (in preparation).
- G. Zinc Mining in Tennessee; by S. W. Osgood (issued); postage, 1 cent.
- H. Preliminary Geological map of Tennessee, (in preparation).

Bulletin No. 3.—Drainage Reclamation in Tennessee; 74 pages; issued July, 1910; postage, 3 cents.

- A. Drainage Problems in Tennessee; by Geo. H. Ashley; pp. 1-15; postage, 1 cent.
- B. Drainage of Rivers in Gibson County, Tennessee; by A. E. Morgan and S. H. McCrory; pp. 17-43; postage, 1 cent.
- C. The Drainage Law of Tennessee; pp. 45-74; postage, 1 cent.

Bulletin No. 4.—Administrative Report of the State Geologist for 1910.

Bulletin No. 5.—Clay deposits of West Tennessee; by Wilbur A. Nelson (in press).

Bulletin No. 6.—Road Building in Tennessee; by Geo. H. Ashley (in preparation).

Bulletin No. 7.—Water Resources of Tennessee; by L. C. Glenn (in preparation).

Bulletin No. 8.—Economic Geology of the Dayton-Pikeville Region; by W. C. Phalen (in preparation).

Bulletin No. 9.—Studies of the Forests of Tennessee.

- A. An investigation of the forest conditions in Tennessee; by R. Clifford Hall (in preparation).
- B. A study of the growth of the second growth hardwoods; by W. W. Ashe (in preparation).

Bulletin No. 10.—The marbles of East Tennessee, illustrated with colored plates; by C. H. Gordon (in preparation).

Bulletin No. 11.—Preliminary report on copper deposits of Polk County; by W. H. Emmons (in preparation).

Bulletin No. 12.—The undeveloped small water powers of Tennessee; by J. A. Switzer and Geo. H. Ashley (in press).









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